

Appl. No. 10/709,712
Amtd. dated November 22, 2005
Reply to Office action of June 22, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

Claim 1 (currently amended): A ~~cooling structure for a~~ projection apparatus, comprising :

5 a housing having a first air inlet and an air outlet, the first air inlet positioned at a bottom surface of the housing, and a space formed between the bottom surface and a surface positioning the projection apparatus, the air outlet positioned at a side surface of the housing; and
10 a at least one partition, installed horizontally inside in said housing for separating the housing into to form a double-layer structure of a first zone and a second zone, and at least a the first air inlet disposed at the lower part of said being formed at the first zone and positioned under the partition, the air outlet being formed at the second zone;
15 at least a second air inlet disposed formed between the partition and the housing; said first zone and said second zone and a turning angle existing between said first air inlet and said second air inlet;
 an optical engine positioned inside the second zone;
 a light source positioned inside the second zone for emitting light into the optical engine to form an image; and
20 a fan installed in the second zone for drawing air from the first air inlet and second air inlet into the second zone, the air being exhausted through the air outlet.

Claim 2 (canceled)

25 Claim 3 (currently amended): The ~~projection apparatus cooling structure according to~~ claim 1, wherein a guide plate is installed at the exit of said second air inlet to guide airflow the air to elements needed to be cooled.

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Claim 4 (canceled)

5 Claim 5 (currently amended): The projection apparatus cooling structure according to
claim 1, further comprising wherein an air outlet is disposed at said second zone and an
air-guiding duct having one end connected to is installed in front of said air outlet.

10 Claim 6 (currently amended): The projection apparatus cooling structure according to
claim 5, wherein the air-guiding duct has a curved air flowing path is disposed in said
air-guiding duct.

15 Claim 7 (currently amended): The projection apparatus cooling structure according to
claim 6, further comprising a wherein at least one baffle is installed inside in said
air-guiding duct.

20 Claim 8 (currently amended): The projection apparatus cooling structure according to
claim 1, further comprising wherein a duct formed by a plurality of printing circuit boards
forming a duct having one end close to is disposed at the exit of said second air inlet, and
heat elements are installed inside of said duct.

25 Claim 9 (currently amended): The projection apparatus cooling structure according to
claim 1, further comprising wherein a filter is installed at said first air inlet.

Claim 10 (new): The projection apparatus according to claim 1, wherein the partition
25 has a second air inlet positioned close to the light source.

Claim 11 (new): The projection apparatus according to claim 1, wherein the partition
has a periphery, a part of the periphery connected to the bottom of the housing and the

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other part of the periphery formed the second air inlet with the housing.